

## **ABSTRACT OF THE DISCLOSURE**

A transceiver of a communication system is disclosed. The transceiver is implemented by a demodulation apparatus including a front-end receiver, a noise canceller, a feedforward equalizer (FFE) and a decoding system. The front-end receiver receives a remote signal and converts it into a first signal with a pre-cursor and a post-cursor in digital form. The noise canceller is coupled to the front-end receiver for subtracting a noise signal from the first signal and thus generates a second signal. The FFE is coupled to the noise canceller for eliminating the pre-cursor in the second signal and thus generates a third signal. The decoding system is coupled to the FFE for decoding the third signal and eliminating the post-cursor in the third signal.

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